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Replacement Abstract

ABSTRACT

A transfer guide for a high-speed power transmission, which can cancel a change in a transmission chain speed so that smooth transmission timing can be realized and a driving power and vibration noises of the transmission chain can be significantly reduced. A curve track T for a transfer guide 100 for a high-speed power transmission disposed in a transfer position X2 just before a transmission chain, which is traveled at a fixed speed by pressing the chain on the inner circumferential side of the chain with a travel limiting guide R, is meshed with a sprocket S, ~~which is rotated at a fixed speed,~~ is defined along an movement passage of the roller C2 in the transfer position X2. ~~Thus when three rollers C1, C2, and C3 in a transmission chain C, which are continued at desired chain pitches Cp, are to be meshed with a sprocket S while being opened on an outer circumferential side of the chain from a travel limiting guide R, in such an arrangement traveling state that always corresponds to a travel limiting position X1, a transfer position X2 and a meshing position X3, is defined~~ along an movement passage of the roller C2 in the transfer position X2, ~~an change in the speed generated in a roller in the transmission chain C, which meshes the sprocket S to perform polygonal motion, is canceled.~~ Thus, the change in the transmission chain speed is canceled so that smooth transmission timing can be reliably realized and the driving power and vibration noise of the transmission chain can be significantly reduced.